

Remedial Investigation Summary

WILCOX OIL COMPANY, BRISTOW, OK

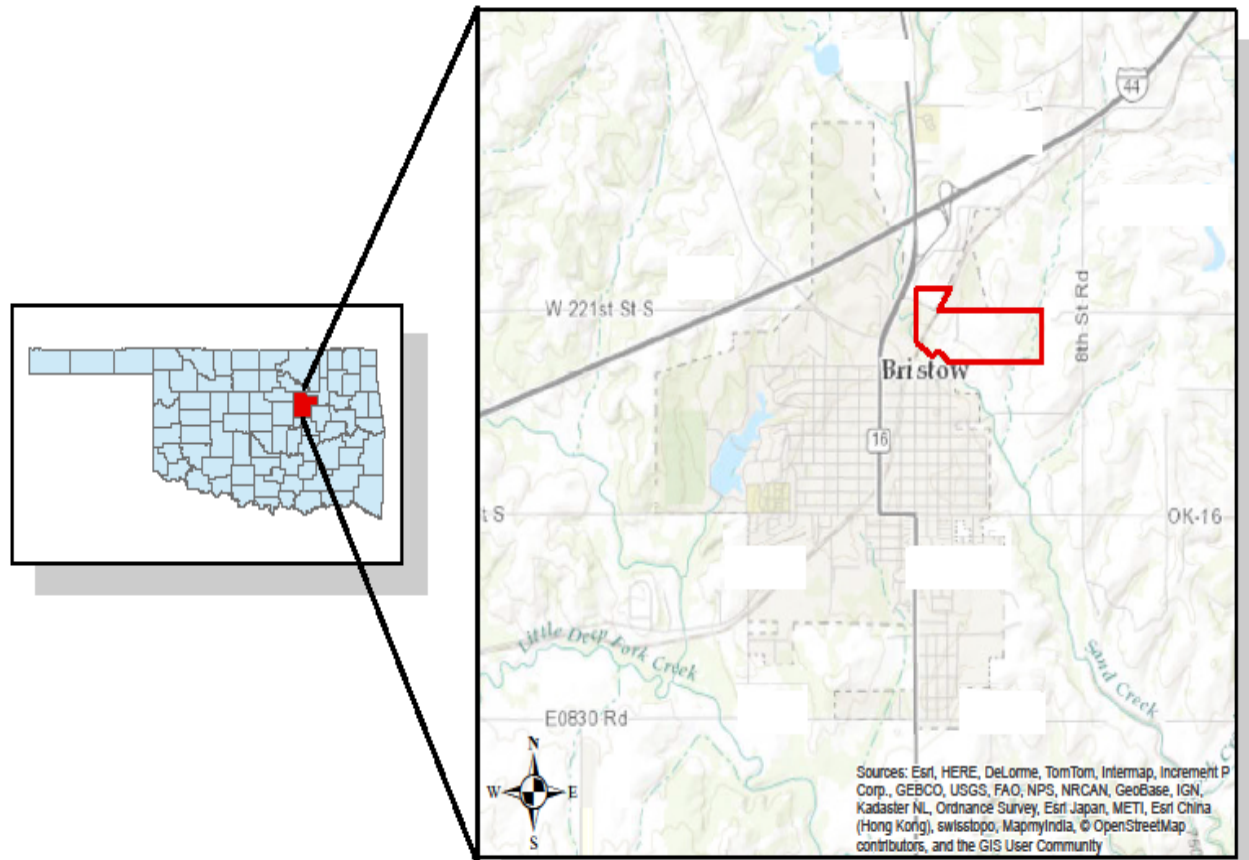
MARCH 15, 2018





Site Location

The Site is situated NE of Bristow, Creek County, Oklahoma





Site Background

Operation:
Oil Refinery

Activity Period:
1915 through 1963

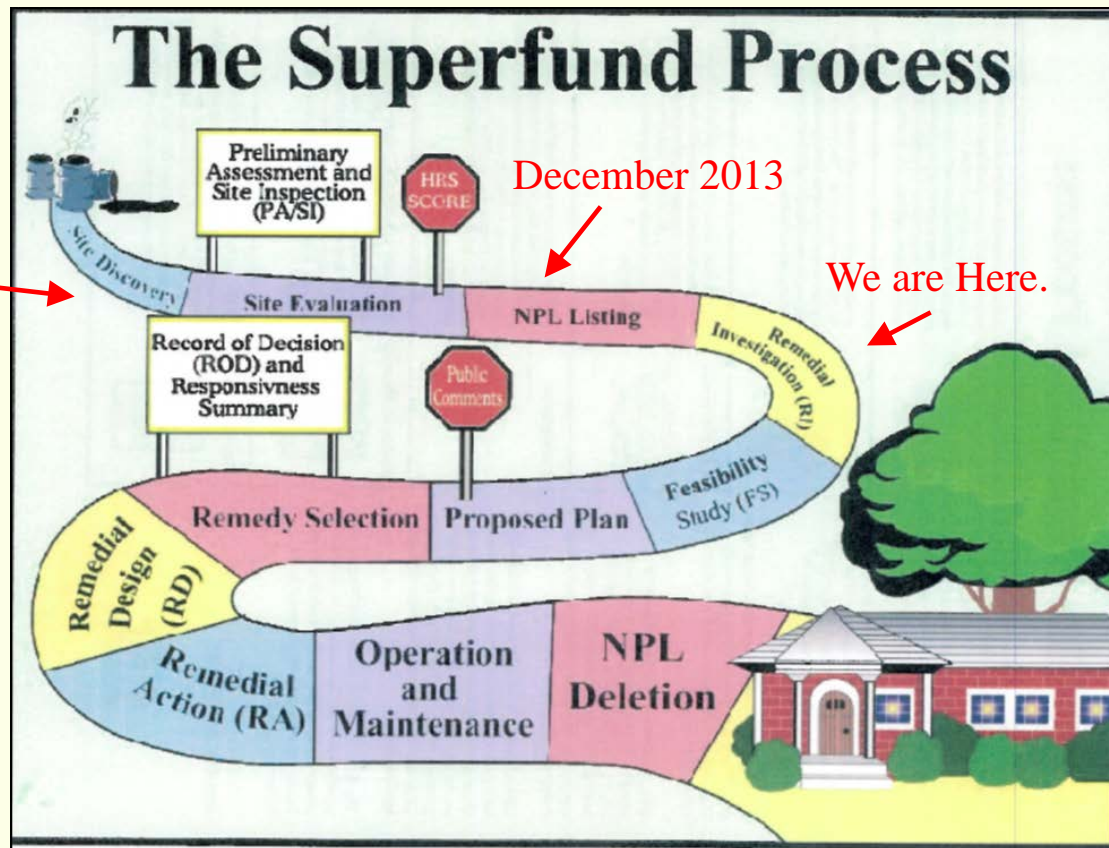
Size:
about 140 to 150
acres

Listed:
December 12, 2013



1950s Aerial Photograph

Superfund Process – Project Status

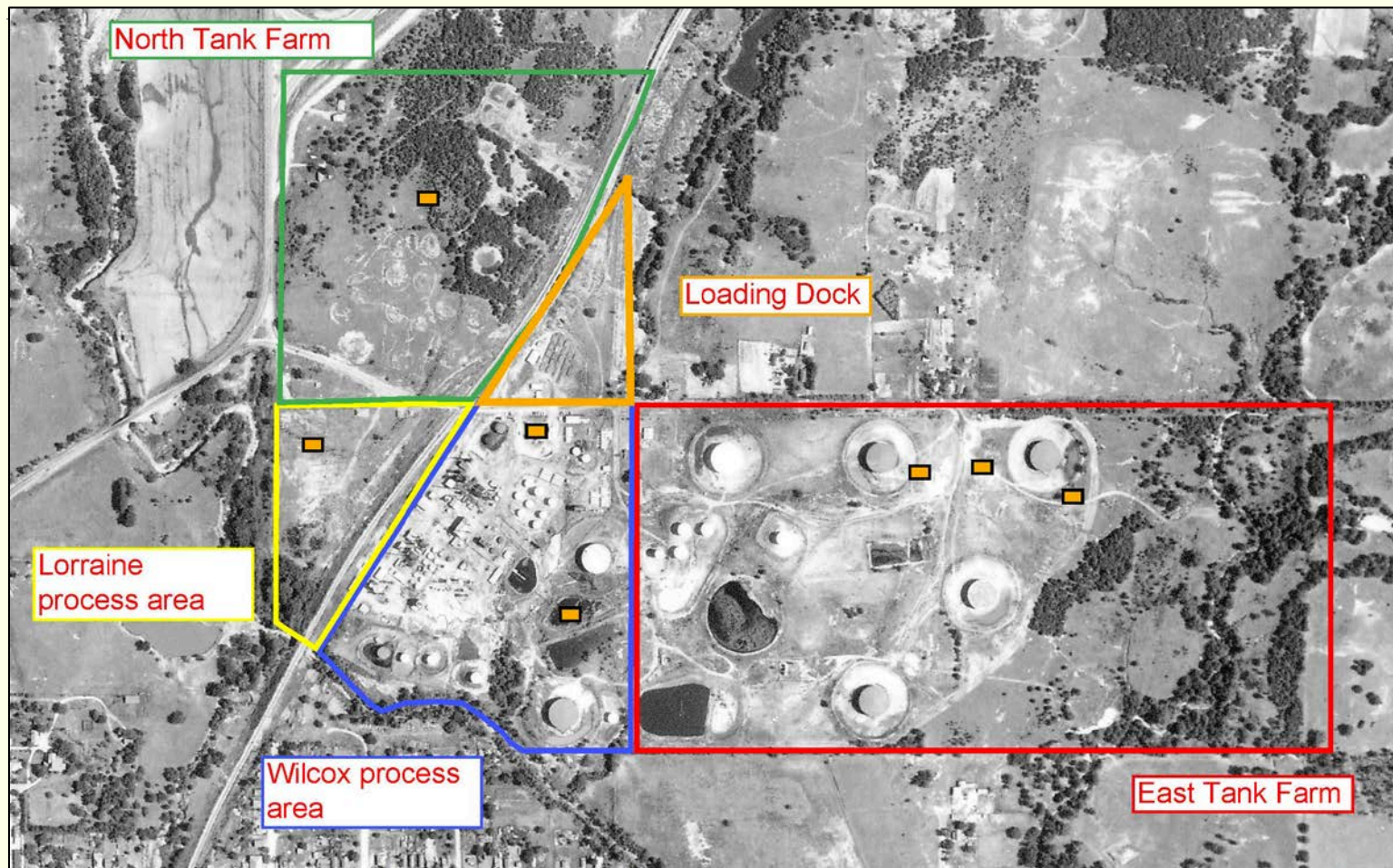


Remedial Investigation-
collect data to:

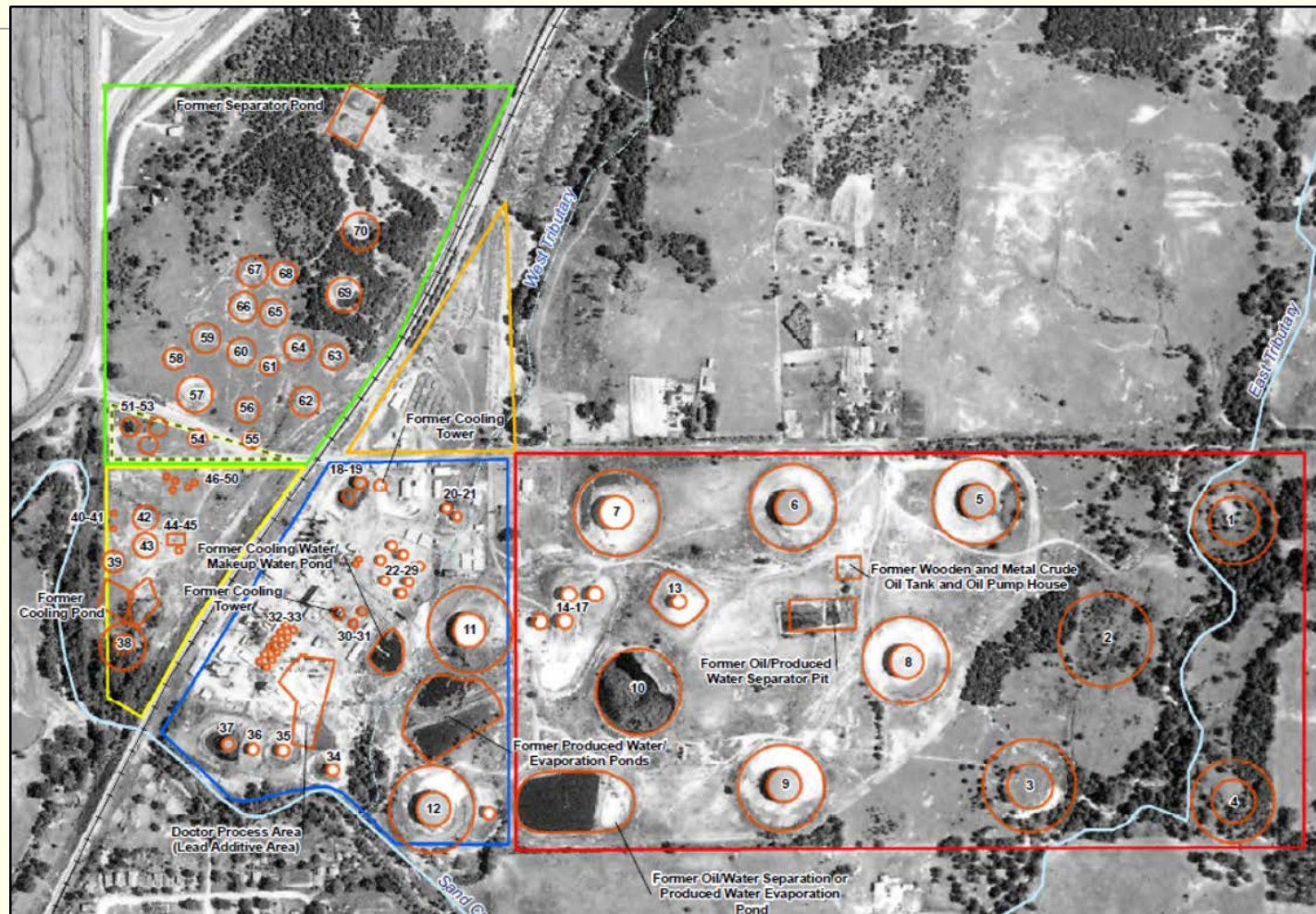
- Determine Site conditions
- Determine nature of contamination
- Evaluate risk from the Site to human health and environment



Remedial Investigation – 5 Operation Areas



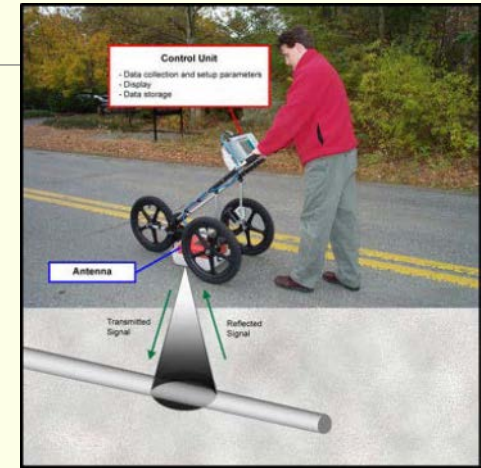
Remedial Investigation – Facility Features



Remedial Investigation – Phase Approach

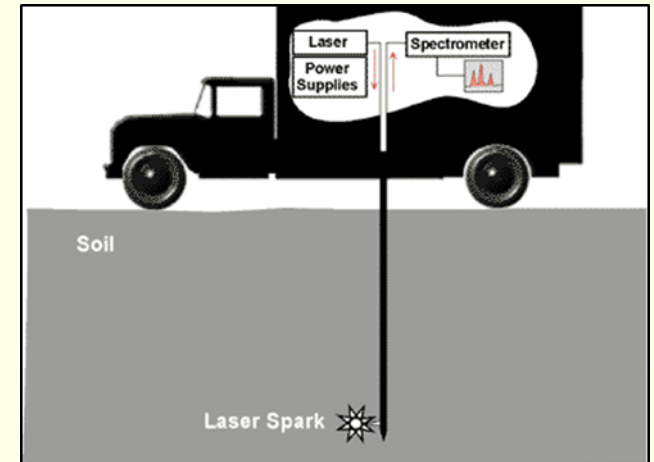
Phase 1 – Site Screen

- Residential Soil and Ground Water Sampling
- Fencing Waste Areas
- Geophysics
- Direct Sensing

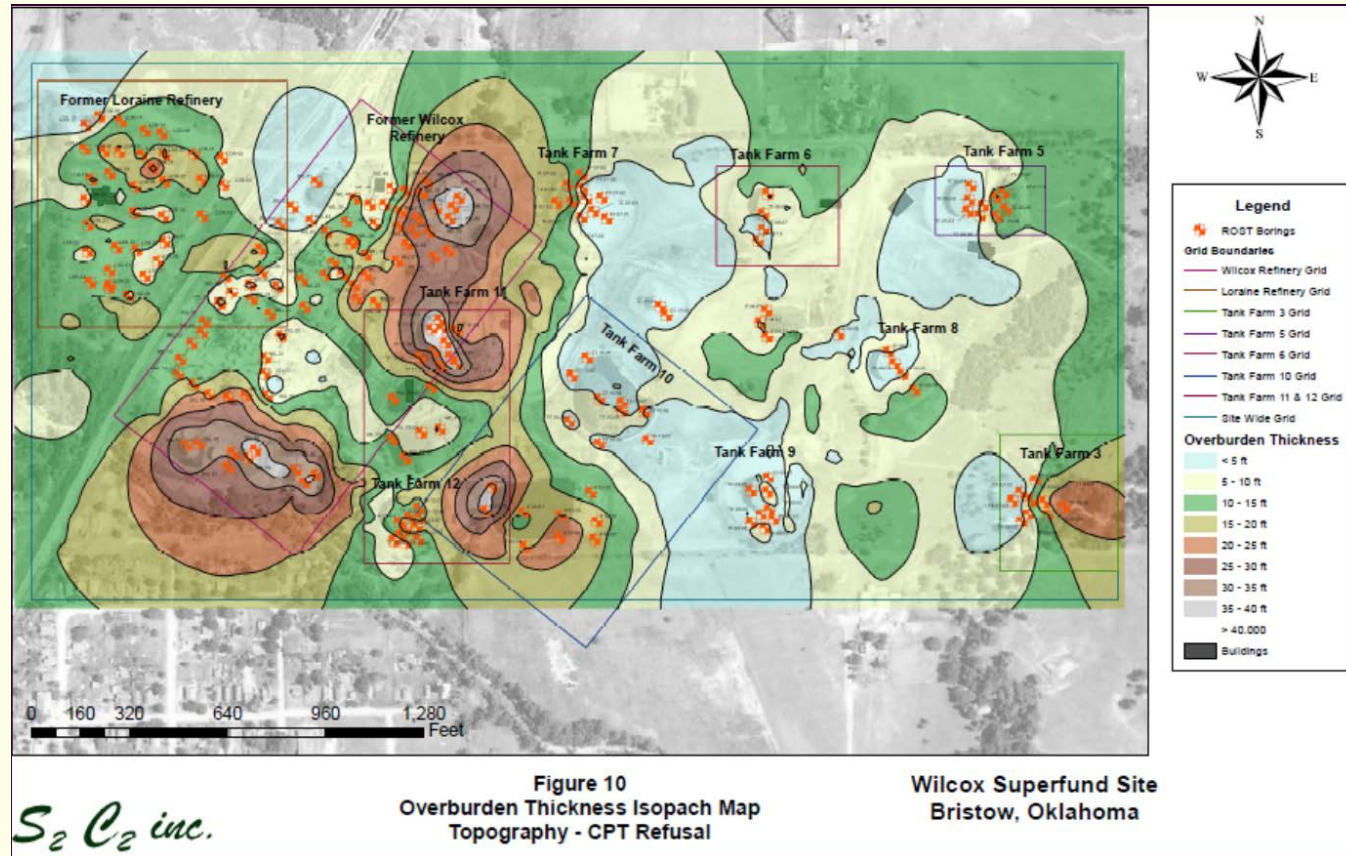


Phase 2 – Data Collection over multiple field events

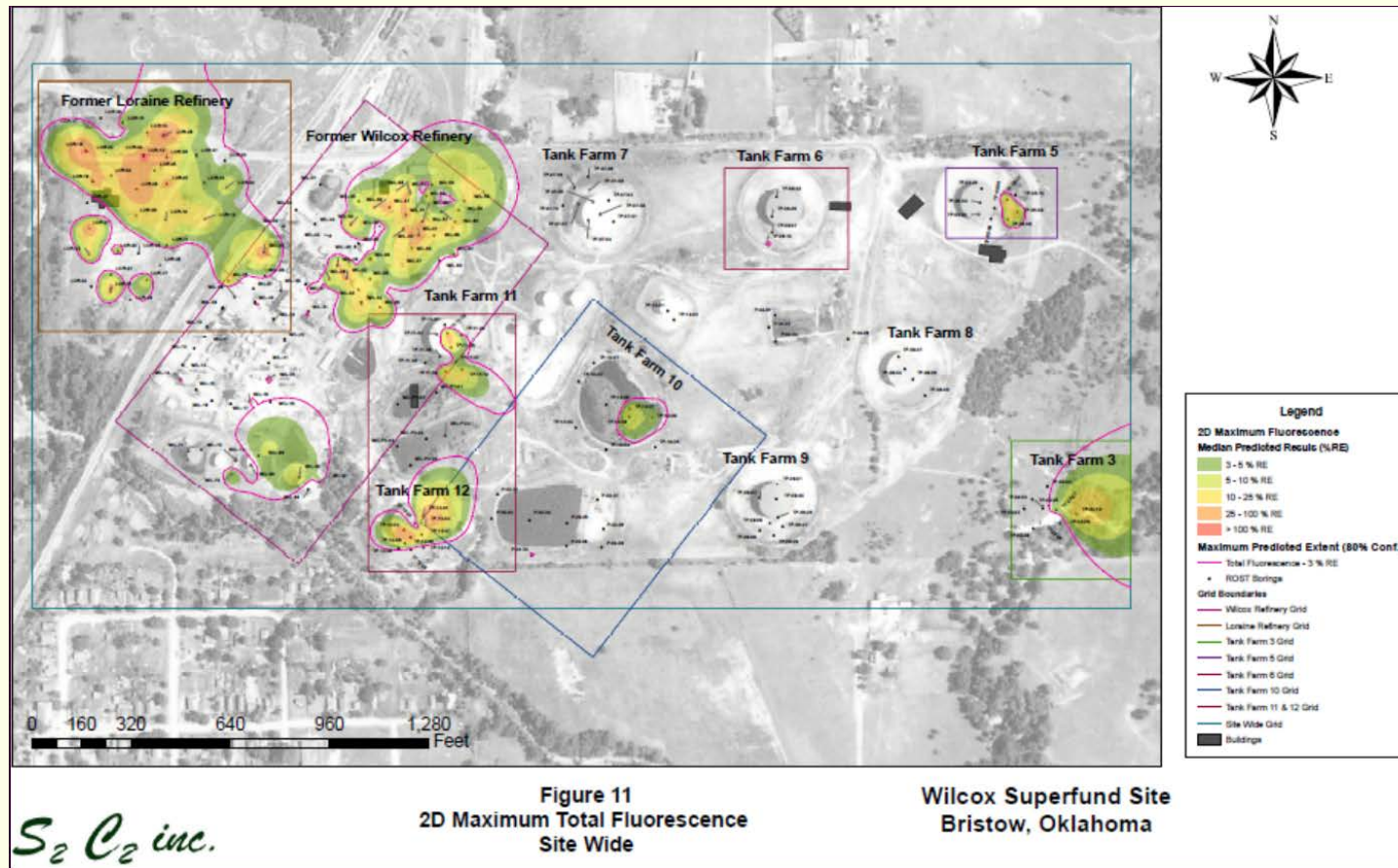
- Sources
- Soils
- Surface water
- Sediment
- Ground water
- Soil gas and indoor air



Remedial Investigation - Geophysics



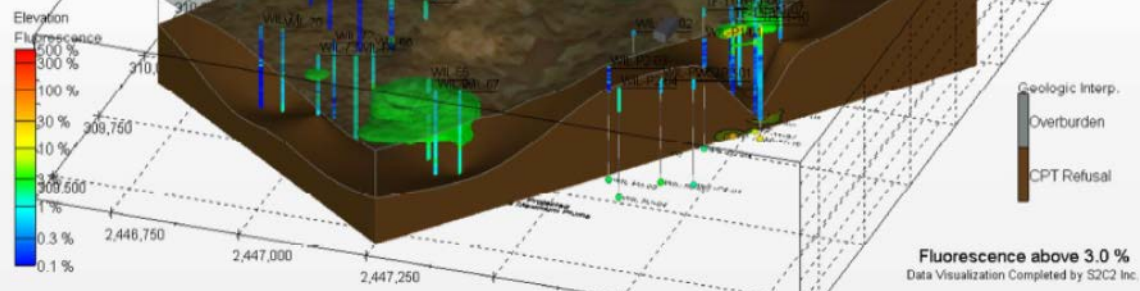
Remedial Investigation – Direct Sensing





Bristow, Oklahoma
Initial Conceptual Site Model - 2015

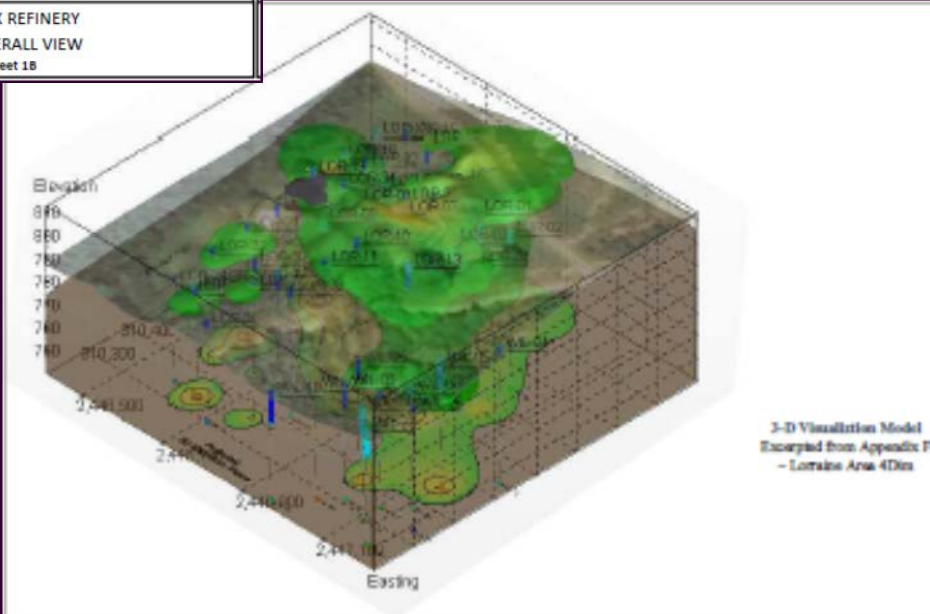
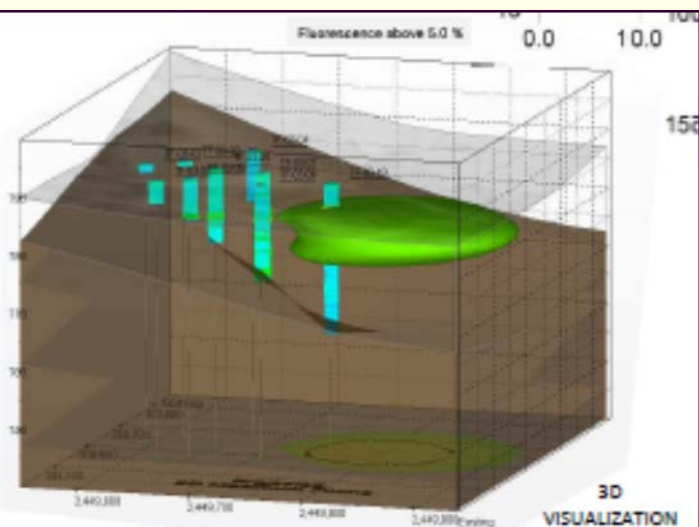
Former Wilcox Refinery Grid
3D Kriged Fluorescence above
CPT Refusal
Vertical Exaggeration = 5x



Remedial Investigation – Direct Sensing

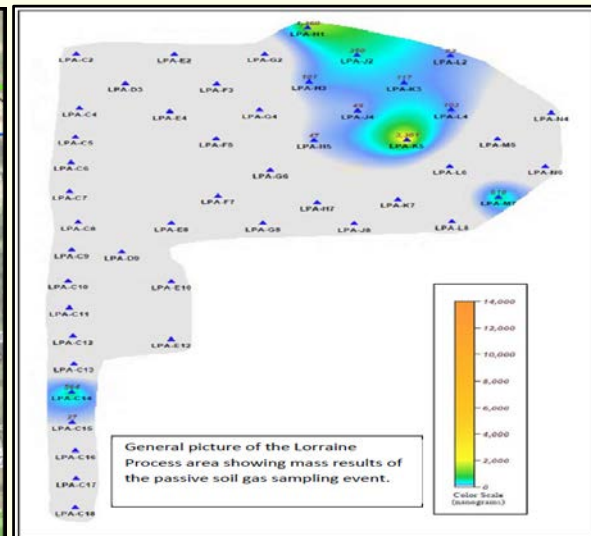
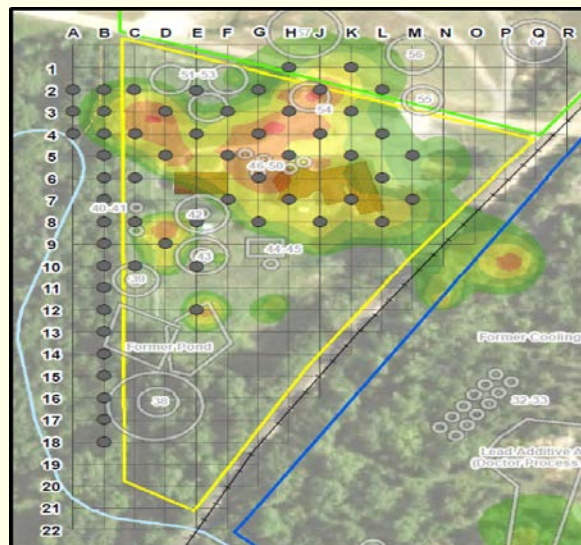
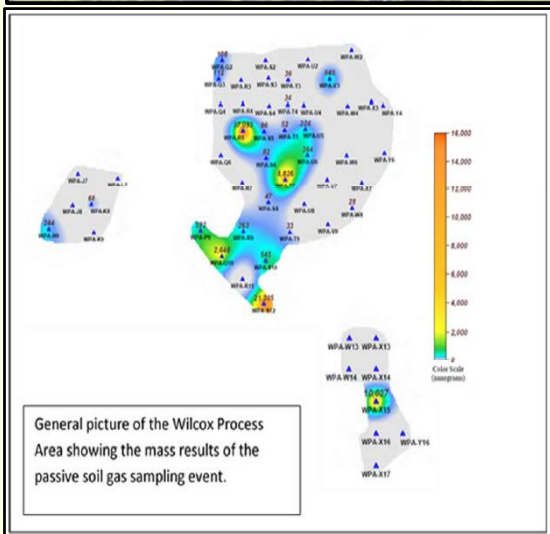
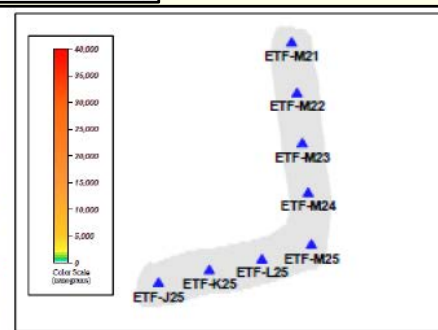
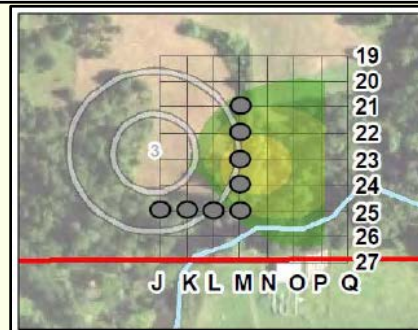
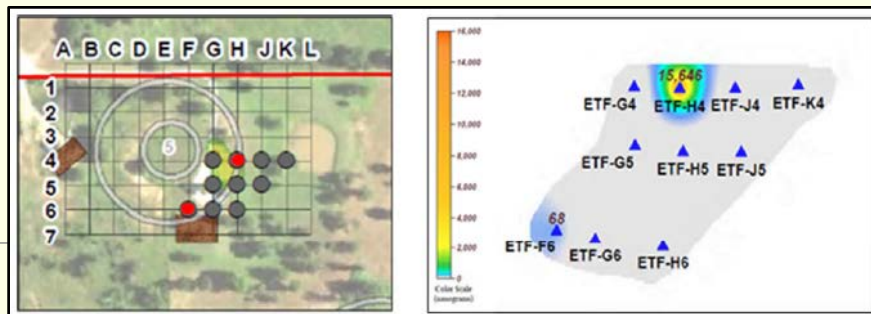
U.S. EPA Environmental Response Team
Scientific Engineering Response and Analytical Services
EP-W-09-031 W.A. 40-277

WILCOX REFINERY
3-D OVERALL VIEW
Sheet 18



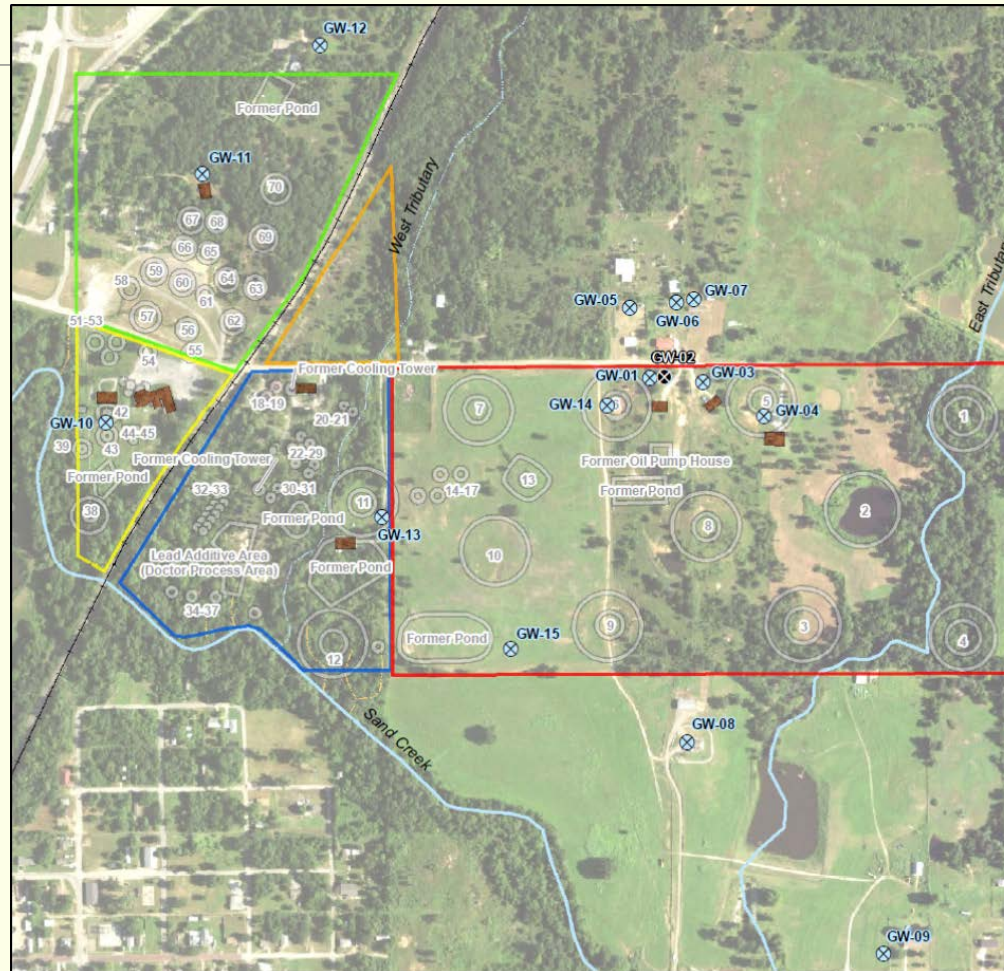


Remedial Investigation – Passive Gas

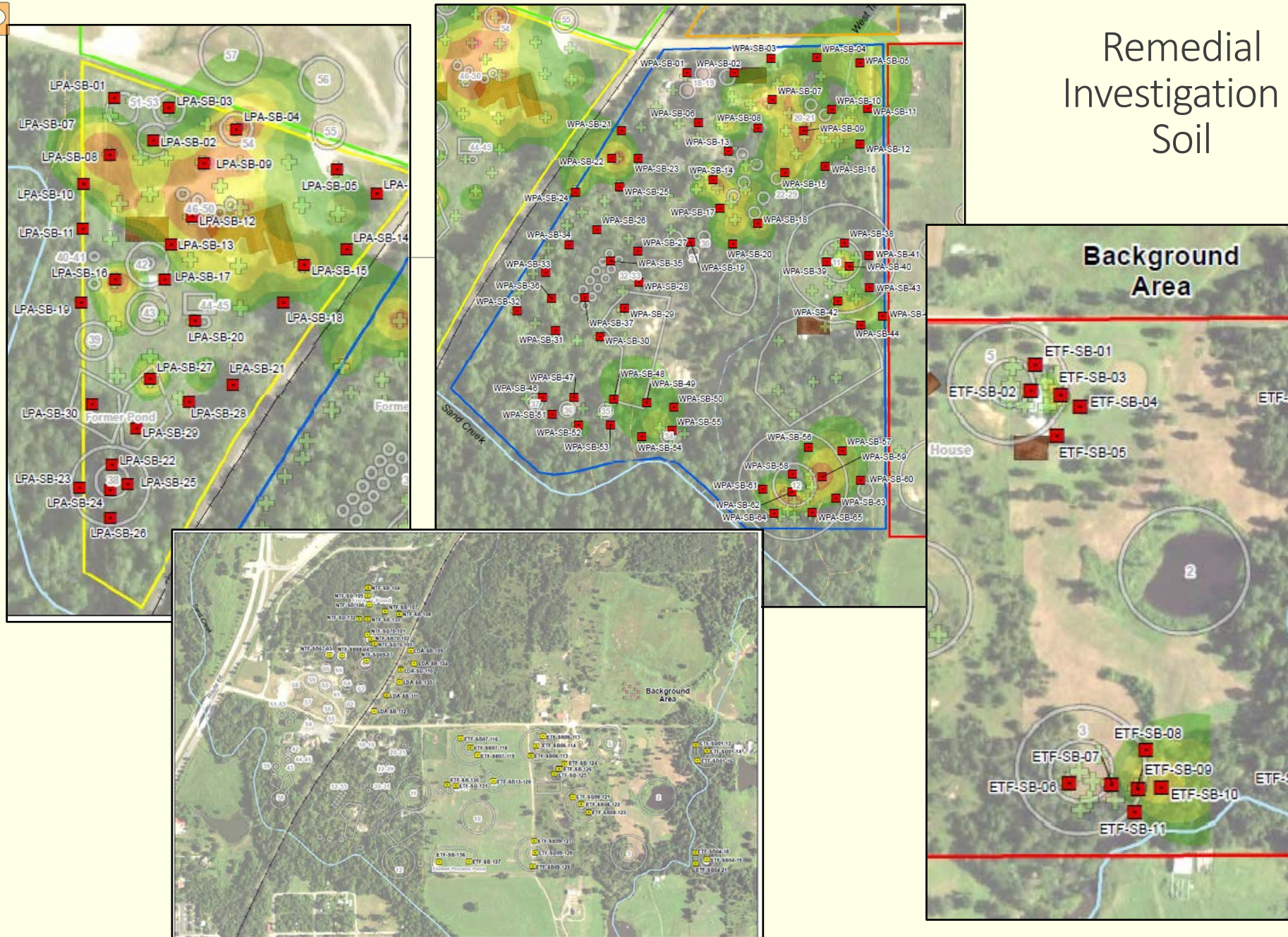




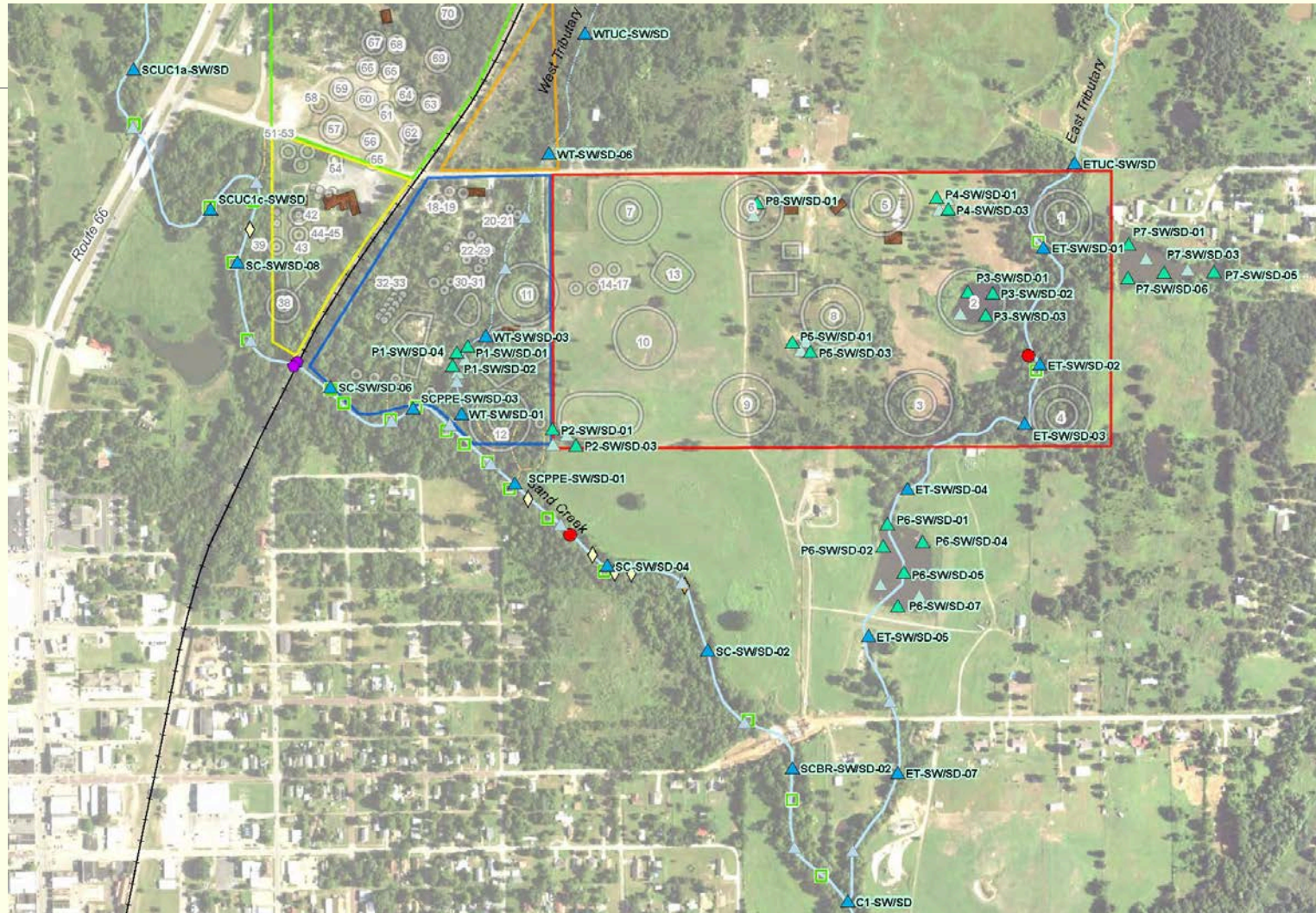
Remedial Investigation – Ground Water



Remedial Investigation - Soil



Remedial Investigation – Surface Water and Sediment





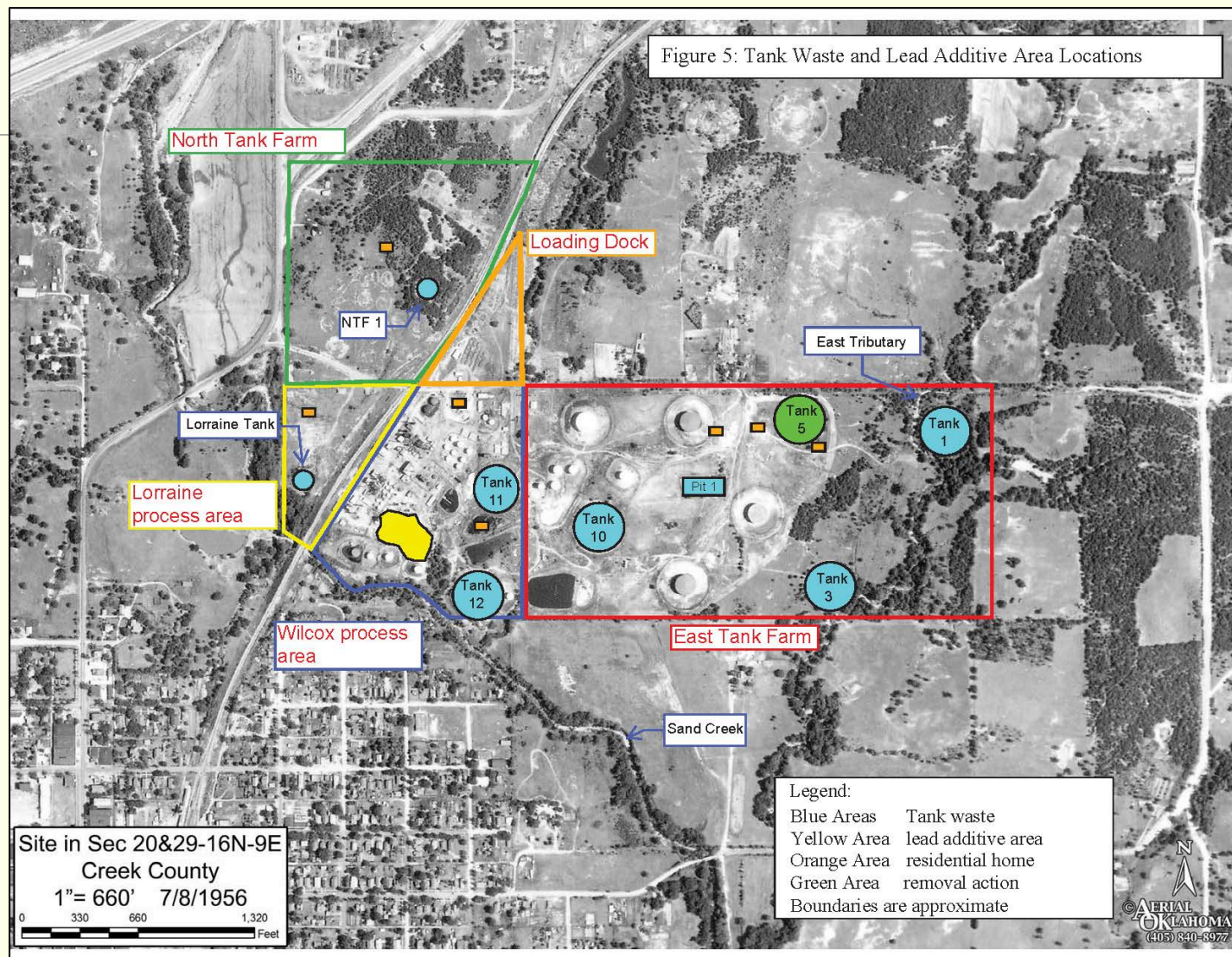
Remedial Investigation – Sources

Source Identification

- Tank waste
- Lead Additive Area



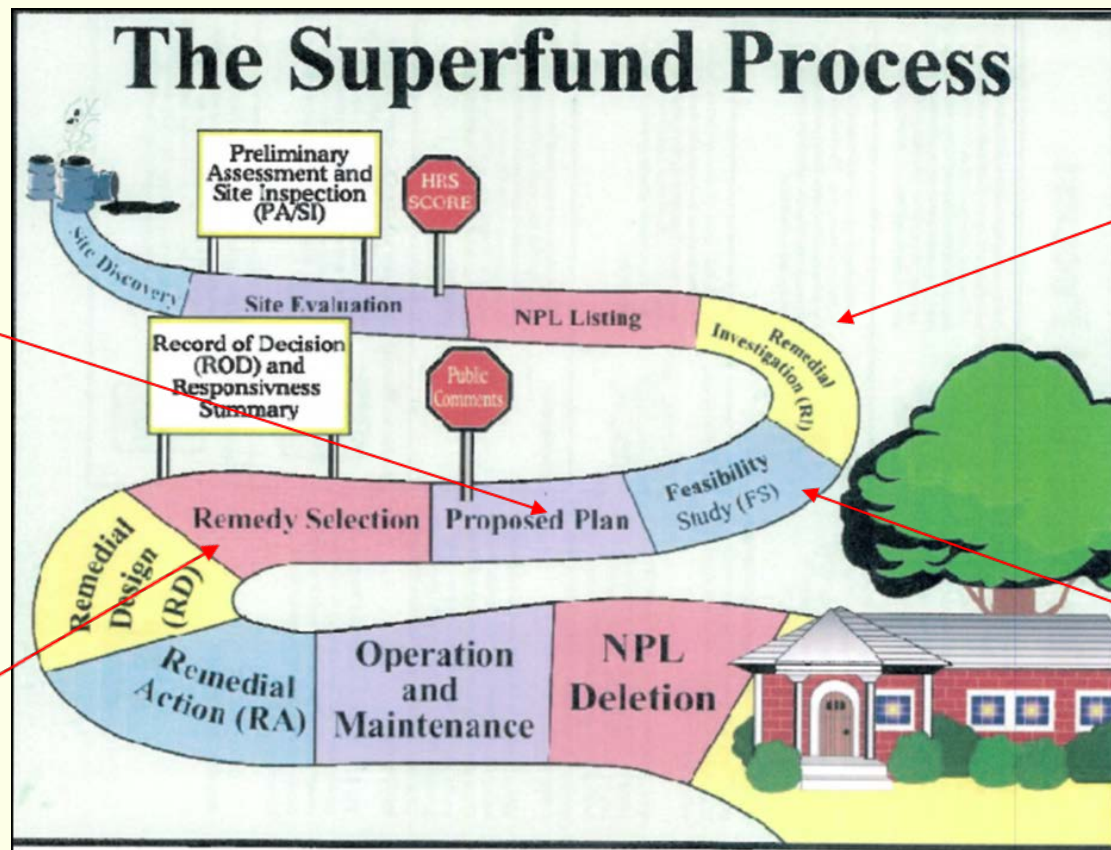
Remedial Investigation - Sources



Future Work

Proposed Plan
to present the
preferred clean
up option to
the public
(2020)

Record of
Decision to
establish the
Site clean up
(2021)



We are Here.

Feasibility Report
to summarize
clean up options
(2020)

Community Involvement

Site documents can be found at:

- Bristow Public Library
- Oklahoma Department of Environmental Quality

Web Resources

- ODEQ: www.deq.state.ok.us/lpdnew/index.htm
- U.S. EPA: <http://www.epa.gov/superfund/wilcox-oil>

Contacts

- | | |
|--|--------------|
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